\*File 155: Medline has been reloaded and accession numbers have \$0.33 Estimated total session cost 0.093 DialUnits 05may03 09:43:18 User208669 Session D2276.1 File 155:MEDLINE(R) 1966-2003/Apr W4 (c) format only 2003 The Dialog Corp. SYSTEM:OS - DIALOG OneSearch \$0.32 0.093 DialUnits File1 \$0.33 Estimated cost this search \$3:32 Estimated cost File1 \$0.01 TELNET ? b.155,357

Alert feature enhanced for multiple files, etc. See HELP ALERT. \*File 357: File is now current. See HELP NEWS 357. (c) 2003 Thomson Derwent & ISI

File 357:Derwent Biotech Res. 1982-2003/Apr W4

changed. Please see HELP NEWS 155.

700069 IMMUNE OR IMMUNO? OR VACCINE? (c) format only 2003 The Dialog Corp. All rts. reserv. 165 DIFFERENT(W) VECTORS 158957 VECTOR OR VECTORS 119 THREE (3N) S5 AND S10 222 SECOND(3N)BOOST? DIALOG(R)File 155:MEDLINE(R) 0 SECIND(3N)BOOST? 103 RD (unique items) (Item 1 from file: 155) 14 S9 AND S10 Set Items Description 42 S12 AND S1 10344905 PY<1999 Items Description S1 AND S7 164 S1 AND S3 7 S4 AND S5 108 ?ts6/7/1-6

with pcDNAIE180, an overall 25% of BALB/c, C3H/HeJ, and C57BL/6 mice 70% of BALB/c mice given the DNA vaccine (2 microg/mouse) seroconverted immune response against PrV. To examine the response by IE180 more closely, contains the gene encoding for IE180, designated pcDNAIE180. The DNA pregnant mice vaccinated with pcDNAIE180 was observed. Interestingly, a moderate level of protection (27.6%) was also observed when these offspring of C57BL/6 mice, whereas C3H/HeJ mice remained negative after the first vaccination, but responded after a booster. Seven months after immunization received a lethal PrV challenge. Moreover, an enhancement of immune vaccine was delivered in gold microcarriers using a Helios Gene Gun, and within 2 weeks. The remaining negative mice seroconverted after a single virus (PrV) immediate early protein (IE180) may contribute to the overall vaccine booster. Essentially similar results were obtained on vaccination An earlier study in our laboratory provided evidence that pseudorabies receiving a lethal PrV challenge were protected. In addition, a significant we initiated a vaccine trial in mice with a vector DNA construct that passive transfer of IE180-specific antibodies to the offspring from Main Citation Owner: NLM Record type: Completed

Languages: ENGLISH

may indeed play a role in the overall protective immunity against PrV. Record Date Completed: 19980624 Record Date Created: 19980624

in mice that received a second vaccine booster by gene gun 8 months after

the first vaccination. Together, these data support the theory that IE180

responses and a twofold increase in the level of protection were observed

(c) format only 2003 The Dialog Corp. All rts. reserv. 11127323 98001376 PMID: 9343211 DIALOG(R)File 155:MEDLINE(R) 6/7/2 (Item 2 from file: 155)

cellular, and mucosal immune responses in rhesus macaques and decreases An adenovirus-simian immunodeficiency virus env vaccine elicits humoral, viral burden following vaginal challenge.

Buge S L; Richardson E; Alipanah S; Markham P; Cheng S; Kalyan N; Miller Basic Research Laboratory, National Cancer Institute, Bethesda, Maryland C J; Lubeck M; Udem S; Eldridge J; Robert-Guroff M

Journal of virology (UNITED STATES) Nov 1997, 71 (11) p8531-41, SSN 0022-538X Journal Code: 0113724 20892, USA.

Document type: Journal Article Languages: ENGLISH

A vector DNA vaccine encoding pseudorabies virus immediate early protein

demonstrates partial protection in mice against lethal virus challenge

Chang S W; Bu J; Rompato G; Garmendia A E

Viral immunology (UNITED STATES) 1998, 11 (1) p27-36, ISSN Department of Pathobiology, University of Connecticut, Storrs 06269, USA.

0882-8245 Journal Code: 8801552

Document type: Journal Article

Main Citation Owner: NLM

Record type: Completed

mutant (Ad5hr)-simian immunodeficiency virus SIVsm env recombinant and at weeks and intratracheally at 12 weeks with an adenovirus type 5 host range Six female rhesus macaques were immunized orally and intranasally at 0

comprising additional viral components for immune therapy and AIDS vaccine Immunoglobulin G (IgG) and IgA antibodies able to bind gp120 developed in 24 and 36 weeks with native SIVmac251 gp120 in Syntex adjuvant. Four recombinant and gp120 subunit induces strong humoral, cellular, and mucosal immunity in rhesus macaques. The reduced viral burden achieved solely with recombinant vectors occurred with detection of Ad5 DNA in stool samples and T-helper epitopes were sporadically detected in all immunized macaques. neutralizing antibodies appeared after the second recombinant immunization an env-based vaccine supports further development of Ad-based vaccines infection resulted in both immunized and control monkeys. The mean viral antibody in 9 of 10 macaques following Ad administrations. SIV-specific macaques received the Ad5hr vector and adjuvant alone; two additional overcomes the host range restriction of human Ads for rhesus macaques, thereby providing a new model for evaluation of Ad-based vaccines. In and/or nasal secretions in all macaques and increases in Ad5 neutralizing macaques. These results establish in vivo use of the Ad5hr vector, which nasal and rectal secretions, and SIV-specific IgGs were also observed in vaginal secretions and saliva. T-cell proliferative responses to SIV gp140 Following vaginal challenge with SIVmac251, transient or persistent burden in persistently infected immunized macaques was significantly addition, they show that a vaccine regimen using the AdShr-SIV env controls were naive. In vivo replication of the AdShr wild-type and decreased in the primary infection period compared to that of control and rose to titers > 10,000 following the second subunit boost. development.

Record Date Created: 19971113

Record Date Completed: 19971113

DIALOG(R)File 155:MEDLINE(R) 6/7/3 (Item 3 from file: 155)

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immunodeficiency virus type 1 immunogen expressed by a Venezuelan equine Humoral, mucosal, and cellular immunity in response to a human encephalitis virus vaccine vector.

Caley I J; Betts M R; Irlbeck D M; Davis N L; Swanstrom R; Frelinger J A;

Johnston R E

Journal of virology (UNITED STATES) Apr 1997, 71 (4) p3031-8, ISSN Department of Microbiology, School of Medicine, University of North Carolina, Chapel Hill 27599, USA.

Contract/Grant No.: 5-T32-AI07273-12; AI; NIAID

0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

A molecularly cloned attenuated strain of Venezuelan equine encephalitis Record type: Completed

MA/CA were detected following immunization with the MA/CA-expressing VEE natrix/capsid (MA/CA) coding domain of human immunodeficiency virus type 1 a site of potent immune activity. Anti-MA/CA immunoglobulin G (IgG) and IgA vector to stimulate an anti-HIV immune response in mice. The VEE-MA/CA Davis, K. W. Brown, and R. E. Johnston, J. Virol. 70:3781-3787, 1996). The protein. When injected subcutaneously into BALB/c mice, the vector invaded and replicated in the draining lymphoid tissues, expressing HIV-1 MA/CA at subcutaneous immunizations. Cytotoxic T-lymphocyte responses specific for vector system to stimulate a comprehensive humoral and cellular immune response. The multifaceted nature of this response makes VEE an attractive (HIV-1) was cloned into the VEE vector to determine the ability of a VEE vaccine for immunization against virus infections such as HIV-1, for which vector replicated rapidly in the cytoplasm of baby hamster kidney (BHK) virus (VEE) has been genetically configured as a replication-competent MA/CA were detected in vaginal washes of mice that received two cells and expressed large quantities of antigenically identifiable MA/CA vector. These findings demonstrate the ability of a VEE-based vaccine the correlates of protective immunity remain unclear, but may include increased after a second booster inoculation. IgA antibodies specific for antibodies were present in serum of all immunized mice, and titers vaccine vector for the expression of heterologous viral proteins (N. L. multiple components of the immune system.

Record Date Completed: 19970411 Record Date Created: 19970411

6/7/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

DNA-mediated immunization to hepatitis B surface antigen: longevity of primary response and effect of boost.

Davis HL; Mancini M; Michel ML; Whalen R G

Loeb Medical Research Institute, Ottawa Civic Hospital, Canada

Vaccine (ENGLAND) Jun 1996, 14 (9) p910-5, ISSN 0264-410X

Document type: Journal Article Journal Code: 8406899

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

the envelope proteins induces a strong humoral response to the HBV surface antigen (HBsAg) which is sustained for up to 74 weeks without boost. After (anti-HBs) reach ELISA titers of 4 x 10(4) in C57BL/6 mice and 10(4) in BALB/c mice, or somewhat less in older mice. Although antibody levels a single i.m. injection of 100 micrograms DNA, antibodies to HBsAg vectors containing all or part of the hepatitis B virus (HBV) gene encoding Intramuscular (i.m.) injection of mice with plasmid DNA expression induced by a single injection of DNA do not diminish significantly over

time, they can be further increased 10-200-fold by boosting with a second injection of DNA or an injection of recombinant HBsAg protein. Prior injection of DNA does not affect the strength or timing of the boosting effect, suggesting that there is no immune response against the vector itself. Boosting with a second injection of DNA is possible even in BALB/c mice, which are known to have a strong cytotoxic T-lymphocyte response against an epitope on the major HBV envelope protein, indicating that possible destruction of newly transfected muscle fibers is not so quick and efficient as to abort the boosting effect. A single injection of DNA results in a stronger and longer lasting humoral response than does a single injection of recombinant protein.

Record Date Created: 19970205

Record Date Completed: 19970205

67/5 (Item 5 from file: 155) DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

A prime-boost approach to HIV preventive vaccine using a recombinant canarypox virus expressing glycoprotein 160 (MN) followed by a recombinant glycoprotein 160 (MN/LAI). The AGIS Group, and l'Agence Nationale de Recherche sur le SIDA.

Pialoux G; Excler JL; Riviere Y; Gonzalez-Canali G; Feuillie V; Coulaud P; Gluckman J C; Matthews T J; Meignier B; Kieny M P; et al

Hopital de l'Institut Pasteur, Paris, France.

AIDS research and human retroviruses (UNITED STATES) Mar 1995, 11 (3)

p373-81, ISSN 0889-2229 Journal Code: 8709376 Erratum in AIDS Res Hum Retroviruses 1995 Jul;11(7) 875

Document type: Clinical Trial; Journal Article; Multicenter Study;

Randomized Controlled Trial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The safety and the immunogenicity of a recombinant canarypox live vector expressing the human immunodeficiency virus type 1 (HIV-1) gp 160 gene from the MN isolate, ALVAC-HIV (vCP125), followed by booster injections of a soluble recombinant hybrid envelope glycoprotein MN/LAI (rgp160), were evaluated in vaccinia-immune, healthy adults at low risk for acquiring HIV-1 infection. Volunteers (n = 20) received vCP125 (10(6) TCID50) at 0 and 1 month, followed randomly by rgp160 formulated in alum or in Freund's incomplete adjuvant (FIA) at 3 and 6 months. Local and systemic reactions were mild or moderate and resolved within the first 72 hr after immunization. No significant biological changes in routine tests were observed in any volunteer. Two injections of vCP125 did not elicit antibodies. Neutralizing antibodies (NA) against the HIV-1 MN isolate were detected in 65 and 90% of the subjects after the first and the second rgp 160 booster injections, respectively. Six months after the last boost, only

55% were still positive. Seven of 14 sera with the highest NA titers against MN weakly cross-neutralized the HIV-1 SF2 isolate; none had NA against the HIV-1 LAI or against a North American primary isolate. Specific lymphocyte T cell proliferation to rgp 160 was detected in 25% of the subjects after vCP125 and in all subjects after the first booster injection and 12 months after the first injection. An envelope-specific cytotoxic lymphocyte activity was found in 39% of the volunteers and characterized for some of them as CD3+, CD8+, MHC class I restricted. The adjuvant formulation did not influence significantly the immune responses. (ABSTRACT TRUNCATED AT 250 WORDS)

Record Date Created: 19950727

Record Date Completed: 19950727

6/7/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

Immunization with a vaccinia virus recombinant expressing herpes simplex virus type 1 glycoprotein D: long-term protection and effect of revaccination.

Rooney JF; Wohlenberg C; Cremer K J; Moss B; Notkins A L Laboratory of Oral Medicine, National Institute of Dental Research, Bethesda, Maryland 20892.

Journal of virology (UNITED STATES) May 1988, 62 (5) p1530-4, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

gD recombinant. Mice immunized with vaccinia/gD showed 100, 100, and 80% experiments described here, we examined long-term immunity to HSV following Wohlenberg, A. L. Notkins, and B. Moss, Science 228.737-740, 1985). In the expressing the herpes simplex virus type 1 (HSV-1) glycoprotein D (gD) gene HSV-1 for at least 6 weeks after immunization (K. J. Cremer, M. Mackett, C. the impact of previous immunity to vaccinia virus on immunization with the shallenge compared with animals that received only one dose of vaccinia/gD. Previously we showed that mice immunized with a vaccinia virus vector immunization (booster dose) 3 months after the first. These mice developed antibody levels, mice vaccinated with vaccinia/gD were given a second (vaccinia/gD) were protected against both lethal and latent infections with vaccinia/gD vaccination, the effect of revaccination with vaccinia/gD, and protection against lethal infection with HSV-1 at 18, 44, and 60 weeks ganglionic infection was 70, 50, and 31% at 6, 41, and 60 weeks postvaccination, respectively. To study the effect of reimmunization on demonstrated a significant increase in protection against lethal HSV-1 postimmunization, respectively. Protection against latent trigeminal a 10-fold increase in neutralizing-antibody titer (221 to 2,934) and

4

with HSV-1 compared with animals vaccinated only with vaccinia/gD. We conclude that vaccination with vaccinia/gD produces immunity against HSV-1 response to vaccination with vaccinia/gD virus, mice were immunized with a To determine whether preexisting immunity to vaccinia virus inhibited the recombinant vaccinia virus vector expressing antigens from either influenza vaccinia/gD. These mice showed reduced titers of neutralizing antibody to A or hepatitis B virus and were then immunized (2 to 3 months later) with but that prior immunization with a vaccinia recombinant virus expressing a non-HSV gene reduces the levels of neutralizing antibody and protective immunity against HSV-1 challenge. HSV-1 and decreased protection against both lethal and latent infections that lasts over 1 year and that this immunity can be increased by a booster

Record Date Completed: 19880526 Record Date Created: 19880526

DIALOG(R)File 155:MEDLINE(R) 11/7/2 (Item 2 from file: 155)

(c) format only 2003 The Dialog Corp. All rts. reserv.

Enhancing efficacy of recombinant anticancer vaccines with prime/boost

regimens that use two different vectors.

Irvine K R; Chamberlain R S; Shulman E P; Surman D R; Rosenberg S A; Restifo NP

Surgery Branch, Division of Clinical Sciences, National Cancer Institute,

Bethesda, MD 20892-1502, USA.

Journal of the National Cancer Institute (UNITED STATES) Nov 5 1997,

89 (21) p1595-601, ISSN 0027-8874 Journal Code: 7503089 Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

BACKGROUND: The identification of tumor-associated antigens and the cloning of DNA sequences encoding them have enabled the development of recombinant vaccines, we compared primary and booster treatment regimens delivery of antigen-encoding DNA sequences, and a number of recombinant Pulmonary tumors (experimental metastases) were induced in BALB/c mice plasmid DNA. Mouse survival was evaluated in conjunction with antibody and anticancer vaccines. Such vaccines target tumors by stimulating an immune inoculated with CT26.CL25 murine colon carcinoma cells, which express beta-galactosidase--vaccinia (cowpox) virus, fowlpox virus, naked bacterial recombinant bacterial beta-galactosidase (the model antigen). Protocols for response against the antigens. One method of vaccination involves the used two different vectors (i.e., heterologous boosting). METHODS: cytotoxic T-lymphocyte responses to beta-galactosidase. RESULTS: that used a single vector (i.e., homologous boosting) with regimens that vectors have been used for this purpose. To optimize the efficacy of used three vectors that encoded subsequent vaccination

cytotoxic T lymphocytes were generated following heterologous boosting with poxvirus vectors. This response was not observed with any of the homologous boosting regimens. Mice primed with recombinant poxvirus vectors generated highly specific antibodies against viral proteins. CONCLUSIONS: The poor Heterologous boosting augmented antitumor immunity by generating a strong efficacy of homologous boosting regimens with viral vectors was probably a Heterologous boosting resulted in significantly longer mouse survival than homologous boosting (all P<0001, two-sided). Potent antigen-specific antigen-specific cytotoxic T-lymphocyte response. These data suggest that of recombinant DNA anticancer vaccines that have now entered clinical heterologous boosting strategies may be useful in increasing the efficacy consequence of the induction of a strong antiviral antibody response.

Record Date Completed: 19971125 Record Date Created: 19971125

(Item 1 from file: 357)

DIALOG(R)File 357: Derwent Biotech Res.

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0219374 DBR Accession No.: 98-00971

Increasing efficacy of recombinant anticancer vaccines with prime/boost virus, bacterium naked nucleic acid vaccine; potential in cancer gene booster injection regime comparison using vaccinia virus, fowl-pox regimes that use two different vectors - heterologous, homologous

AUTHOR: Irvine K R; Chamberlain R S; Shulman E P; Surman D R; Rosenberg S A; +Restifo N P

CORPORATE AFFILIATE: Nat. Cancer-Inst. Bethesda

CORPORATE SOURCE: National Institutes of Health, Bldg. 10, R2B54, Bethesda, MD 20892-1502, USA.

JOURNAL: J.Natl.Cancer Inst. (89, 21 1595-600) 1997 ISSN: 0027-8874 CODEN: JNCIEQ

CANGUAGE: English

Pulmonary tumors were induced in BALB/c mice inoculated with CT26.CL25 ABSTRACT: Anticancer vaccines target tumors by stimulating an immune delivery of antigen-encoding DNA sequences, and a number of recombinant mouse survival than homologous boosting This strategy may be useful in response against the antigens. One method of vaccination involves the recombinant vaccines, primary and booster treatment regimes were fowl-pox virus, naked bacterial plasmid DNA. Mouse survival was vaccination used 3 vectors that encoded BG (vaccinia (cowpox) virus, mouse colon carcinoma cells, which express recombinant bacterial responses to BG. Heterologous boosting resulted in significantly longer evaluated in conjunction with antibody and cytotoxic T-lymphocyte vectors have been used for this purpose. To optimize the efficacy of beta-galactosidase (BG; model antigen). Protocols for subsequent compared that used 2 different vectors (i.e. heterologous boosting)

increasing efficacy of recombinant DNA anticancer vaccines that have now entered clinical trials. (11 ref)

11/7/9 (Item 3 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0187638 DBR Accession No.: 95-15153

Gene therapy - a novel form of drug delivery - gene transfer by retro

virus, adeno virus, liposome and animal model

AUTHOR: Blau HM; Springer ML

CORPORATE AFFILIATE: Univ. Stanford

CORPORATE SOURCE: Department of Molecular Pharmacology, Stanford University

School of Medicine, Stanford, CA 94305-5332, USA.

OURNAL: N.Engl.J.Med. (333, 18, 1204-07) 1995

ISSN: 0028-4793 CODEN: NEJMAG

LANGUAGE: English

special consideration by the Recombinant DNA Advisory Committee to be ABSTRACT: An overview of gene therapy, including the targets of gene novel medical treatments. Most gene therapy methods have involved the components derived from a number of existing viral and plasmid vectors. vector could be completely synthetic, a composite of DNA-sequence therapy is discussed. Clinical evidence of gene therapy over the past 5 Direct injection of naked DNA plasmids is possible, but this method performed, but should require the same rigorous evaluation as other virus or an adeno virus. Liposomes may also be used for gene transfer. Some desirable properties may include the ability to incorporate large vector to certain cell populations. Animal models of human genetic diseases have been used for testing and comparing different vectors for suggested that clinical tests of gene therapies may no longer require gene, the absence of immunogenicity and the potential to direct the years has shown that in most cases, toxicity is not a problem. It is only functions in heart and skeletal muscle. A potential desirable use of viruses as carriers of the gene, the carrier may be a retro gene delivery. (0 ref)

?ts11/7/1013

11/7/10 (Item 4 from file: 357)

DIALOG(R)File 357: Derwent Biotech Res.

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0179677 DBR Accession No.: 95-07697

Use of a human immunodeficiency virus type-1 rev mutant without nucleolar dysfunction as a candidate for potential AIDS therapy - HIV virus

mutant Rev protein gene cloning in a retro virus-based vector AUTHOR: Furuta R A; Kubota S; Maki M; Miyazaki Y; Hattori T; +Hatanaka

CORPORATE AFFILIATE: Univ.Kyoto-Inst. Virus-Res. Nat.Cancer-Inst.Frederick CORPORATE SOURCE: Department of Molecular Virology, Institute for Virus Research, Kyoto University, Kyoto 606, Japan.

JOURNAL: J. Virol. (69, 3, 1591-99) 1995 ISSN: 0022-538X CODEN: JOVIAM

LANGUAGE: English

ABSTRACT: Applications of transdominant mutants of HIV virus-1 regulatory was introduced into CD4-positive HeLa cells and human T-lymphocyte phenotype on the CEM cells, and production was also suppressed in these cells containing the drev gene driven by the CMV promoter. Since dRev long terminal repeat regions; and plasmid pCdrev, with the drev cDNA virus-based vector the drev cDNA under the control of the HIV 5' and 3' showed suppressed virus replication, syncytium formation and cell death proteins, especially Rev, have been attempted for gene therapy against CCRF-CEM cells by 2 different vectors: plasmid pLdrev, a retro AIDS since the Rev protein is essential for viral replication. A mutant dRev-expressing HeLa cells transduced with the retro virus vector Rev protein (dRev) gene, drev, lacking the nucleolar targeting signal, caused by HIV-1 infection. The same vector conferred a similar under the control of the cytomegalo virus (CMV) promoter. cannot migrate into the nuclei, it is expected not to interfere with nuclear/nucleolar functions of the host cell, and is a promising candidate as an antiviral molecule for AIDS gene therapy. (49 ref)

11/7/13 (Item 7 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0131870 DBR Accession No.: 92-04362

Expression of Eimeria acervulina antigen in E. coli, Salmonella and fowlpox cloning and expression in Escherichia coli, Salmonella gallinarum and and the effect of immunization in chickens - Eala antigen partial gene fowl pox virus; potential recombinant vaccine; cross-protection

(conference abstract)

AUTHOR: van den Boogaart, Vermeulen A N; Panhuyzen J; Groenink A; Kok H J; Tomley F M

CORPORATE AFFILIATE: Organon Intervet

CORPORATE SOURCE: Organon Int. BV, Department of Biochemistry and

Biotechnology, P.O. Box 20, 5340 BH Oss, The Netherlands. JOURNAL: J.Cell.Biochem. (Suppl.16A, 142) 1992

CODEN: JCEBD5

LANGUAGE: English

ABSTRACT: The Eimeria acervulina-derived antigen Ea1A (1269 bp open reading MC1061 was transformed with plasmid pMLB1113(his), and produced a Salmonella gallinarum 9R as a host. Plasmid pMLB1113(his) demonstrated fusion protein with a 23-amino acid N-terminal leader which contained 6 chromatography. Different E. coli-derived plasmids were tested using coli. For expression in fowlpox virus, the EalA gene was fused to the good expression in Salmonella, although quantitatively less than in E. frame, partial gene) was cloned in different vectors. Escherichia coli His residues to facilitate purification by chelate affinity

oocyst output. The Eala antigen has a homologous counterpart in Eimeria The fusion protein was synthesized as an 81 kDa unit. Immunization of moderate protection against E. acervulina, with 30-70% reduction in N-terminal signal peptide of the Newcastle-disease virus HN protein. tenella, and cross-protection was found against lesion scores caused by fowl with either a fusion protein subunit or the vectors resulted in E. tenella. Other species will be tested after the full gene has been cloned. (0 ref

(Item 9 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

Enhancing efficacy of recombinant anticancer vaccines with prime/boost

regimens that use two different vectors.

Irvine K R; Chamberlain R S; Shulman E P; Surman D R; Rosenberg S A; Restifo N P

Surgery Branch, Division of Clinical Sciences, National Cancer Institute,

Bethesda, MD 20892-1502, USA.

Journal of the National Cancer Institute (UNITED STATES) Nov 5 1997, 89 (21) p1595-601, ISSN 0027-8874 Journal Code: 7503089

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

BACKGROUND: The identification of tumor-associated antigens and the cloning of DNA sequences encoding them have enabled the development of recombinant vaccines, we compared primary and booster treatment regimens Pulmonary tumors (experimental metastases) were induced in BALB/c mice delivery of antigen-encoding DNA sequences, and a number of recombinant plasmid DNA. Mouse survival was evaluated in conjunction with antibody and anticancer vaccines. Such vaccines target tumors by stimulating an immune inoculated with CT26.CL25 murine colon carcinoma cells, which express boosting regimens. Mice primed with recombinant poxvirus vectors generated poxvirus vectors. This response was not observed with any of the homologous cytotoxic T lymphocytes were generated following heterologous boosting with highly specific antibodies against viral proteins. CONCLUSIONS: The poor beta-galactosidase--vaccinia (cowpox) virus, fowlpox virus, naked bacterial recombinant bacterial beta-galactosidase (the model antigen). Protocols for cytotoxic T-lymphocyte responses to beta-galactosidase. RESULTS: response against the antigens. One method of vaccination involves the used two different vectors (i.e., heterologous boosting). METHODS: Heterologous boosting resulted in significantly longer mouse survival than homologous boosting (all P<0001, two-sided). Potent antigen-specific that used a single vector (i.e., homologous boosting) with regimens that vectors have been used for this purpose. To optimize the efficacy of subsequent vaccination used three vectors that encoded

Heterologous boosting augmented antitumor immunity by generating a strong efficacy of homologous boosting regimens with viral vectors was probably a antigen-specific cytotoxic T-lymphocyte response. These data suggest that of recombinant DNA anticancer vaccines that have now entered clinical heterologous boosting strategies may be useful in increasing the efficacy consequence of the induction of a strong antiviral antibody response.

Record Date Completed: 19971125 Record Date Created: 19971125

13/7/10 (Item 10 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv. 10979578 97332364 PMID: 9188598

Characterization of humoral and CD4+ cellular responses after genetic

immunization with retroviral vectors expressing different forms of the hepatitis B virus core and e antigens.

Sallberg M; Townsend K; Chen M; O'Dea J; Banks T; Jolly D J; Chang S M; Lee W T; Milich D R

Department of Molecular Biology, Scripps Research Institute, La Jolla,

California 92037, USA. masa@vird01.hs.sll.se

Journal of virology (UNITED STATES) Jul 1997, 71 (7) p5295-303, ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: AI20720; AI; NIAID; AI33562; AI; NIAID Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Humoral and CD4+ cellular HBcAg and/or HBeAg (HBc/eAg)-specific immune (HBc[3A4]), secreted HBeAg (HBe[5A2]), or an intracellular HBcAg-neomycin The humoral and CD4+ cellular immune responses in mice following genetic responses. First, in vivo depletion of CD8+ cells in HBc-NEO[6A3]-immunized hepatitis B virus core antigen (HBcAg) and e antigen (HBeAg) were analyzed. vector immunization greatly enhanced the HBc/eAg-specific humoral responses immunization with HBc/eAg in adjuvant. Two factors influenced the humoral phosphoryltransferase fusion protein (HBc-NEO[6A3]). Specific antibody H-2k mice abrogated both HBcAg-specific antibodies and in vitro-detectable levels and immunoglobulin G isotype restriction were highly dependent on magnitude but followed the same characteristics compared with those after both the host major histocompatibility complex and the transferred gene. immunization with three retroviral vectors encoding different forms of to all three vectors, suggesting that insufficient HBc/eAg-specific CD4+ The retroviral vectors induced expression of intracellular HBcAg responses following retroviral vector immunization were of a lower HBc/eAg-derived T-helper (Th) peptide in adjuvant prior to retroviral cytotoxic T lymphocytes. Second, priming of H-2b mice with an Th-cell priming limits the humoral responses In conclusion, direct

HBc/eAg-specific CD8+ but comparatively inefficient in priming CD4+ Th HBc/eAg-specific CD4+ cell priming can effectively be circumvented by prior administration of a recombinant or synthetic form of HBc/eAg in adjuvant. cells and subsequently specific antibodies. However, the limited injection of retroviral vectors seems to be effective in priming Record Date Completed: 19970710 Record Date Created: 19970710

DIALOG(R)File 155:MEDLINE(R) (Item 13 from file: 155)

(c) format only 2003 The Dialog Corp. All rts. reserv.

Multigene antiviral vectors inhibit diverse human immunodeficiency virus ype 1 clades.

Gervaix A; Li X; Kraus G; Wong-Staal F

Department of Medicine, University of California, San Diego, La Jolla 92093-0665, USA.

Journal of virology (UNITED STATES) Apr 1997, 71 (4) p3048-53,

SSN 0022-538X Journal Code: 0113724

Contract/Grant No.: DK49618; DK; NIDDK

Document type: Journal Article

Main Citation Owner: NLM Languages: ENGLISH

Record type: Completed

(stem-loop II of the Rev response element of HIV type 1 [HIV-1], named SL2) the 5' LTR occurred in 80% of the transduced cells. The numbers of ribozyme inhibited HIV replication. We have previously shown that an RNA decoy as gene therapy. Recent studies have demonstrated that expression of HIV subsequently transduced or transfected into human CD4+ T cells (Molt-4). The chronicity of infection by the human immunodeficiency virus (HIV) study, we expressed this fusion molecule in a retrovirus-based double-copy and a ribozyme (Rz) targeting the U5 region of the HIV-15' long terminal mutant transdominant proteins, RNA decoys, and ribozymes efficiently This study suggests that the combination of multiple anti-HIV genes, such respectively. Cell challenge with multiple subtypes of HIV-1 (clades A to Results showed that the translocation of the SL2-Rz cassette from the 3' to transcription (RT)-PCR, were 1.2 x 10(5), 1.2 x 10(4), and 1.5 x 10(3) inhibiting HIV-1 replication than the ribozyme or the decoy alone. In this molecule with a ribozyme targeting the env/rev region linked to SL2 to E) showed commensurate levels of virus inhibition for the three vectors. repeat (LTR), combined in a fusion molecule, was more efficient in vector to obtain higher expression of this molecule. Furthermore, we copies per cell for the triple-copy, double-copy, and single-copy vectors, obtain a triple-copy vector. These multigene antiviral vectors were RNA transcripts, estimated by competitive-quantitative reverse calls for therapeutic regimens that offer sustained antiviral effects, such inserted a sequence internally to drive expression of another fusion

as ribozymes and decoys, targeting multiple sites of HIV RNA and expressed at high levels are promising for the treatment of HIV-1 infection.

Record Date Created: 19970411

Record Date Completed: 19970411

13/7/33 (Item 33 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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Evaluation of vaccines designed to induce protective cellular immunity against the Plasmodium yoelii circumsporozoite protein: vaccinia, pseudorabies, and Salmonella transformed with circumsporozoite gene.

Sedegah M; Beaudoin R L; Majarian W R; Cochran M D; Chiang C H; Sadoff J; Aggarwal A; Charoenvit Y; Hoffman S L

Infectious Diseases Department, Naval Medical Research Institute,

Bulletin of the World Health Organization (SWITZERLAND) 1990, 68 Suppl Bethesda, MD 20814-5055.

p109-14, ISSN 0042-9686 Journal Code: 7507052 Document type: Journal Article

Languages: ENGLISH

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Record type: Completed

vaccinia, attenuated pseudorabies, and attenuated Salmonella typhimurium pseudorabies, and salmonella CS constructs have been shown to induce Balb/c mice were immunized with 1-4 doses of 10(8) pfu of the vaccinia numbers of CTL, or if CTL against the P. yoelii CS protein are inadequate cytotoxic Tlymphocytes (CTL) against the CS protein, it is likely that CTL protection or delay in prepatent period was seen in any of the experimental unclear if the vaccines did not induce the appropriate CTL or inadequate In an attempt to induce a protective cytotoxic T-cell mediated immunity against sporozoites of Plasmodium yoelii, the gene encoding the P. yoelii the case of vaccinia and pseudorabies constructs, an excellent immune response was obtained as measured by antibodies to sporozoites. No animals when challenged with 200 (vaccinia, pseudorabies) or 100 construct (IV), and 3 doses of 10(9) salmonella transformants (orally). In circumsporozoite (CS) protein was engineered into three live vectors: irradiation-attenuated sporozoites were consistently protected against against the CS protein were induced during these studies. It is currently construct (IP), 3 doses of 10(5), 10(6) or 10(7) pfu of pseudorabies challenge with greater than 10(4) sporozoites. Since other vaccinia, sporozoites, although mice immunized to protect against sporozoite challenge. (salmonella)

Record Date Created: 19910702

Record Date Completed: 19910702

DIALOG(R)File 357:Derwent Biotech Res. (Item 1 from file: 357)

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                                                                                                                                                                                                                                AUTHOR: Dmitriev IP; Khromykh A A; Ignatyev G M; Gainullina M N;
                                                                    Immunization with recombinant vaccinia viruses expressing structural and
                                                                                                                                                                vector-mediated tick-borne encephalitis virus gene expression in mouse
                                                                                                   part of the nonstructural region of tick-borne encephalitis virus cDNA
                                                                                                                                 protect mice against lethal encephalitis - vaccinia virus
                                                                                                                                                                                                     for use as live recombinant vaccine (conference paper)
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                                  0191845 DBR Accession No.: 96-03248
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CONFERENCE PROCEEDINGS: New Approaches to Vaccine Development, NAVD'95
                                                                                            CORPORATE SOURCE: Research institute of Molecular Biology, State Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vC-NS3 (coding for C-prM-E-NS1-NS2A-NS2B-NS3) resulted in production of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LD50 of TBEV, while vectors vC-NS1 and vS'C-NS2A induced much lower antibody levels. This high level of protection with vaccinia virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        with the recombinant viruses vC-NS1 (coding for C-prM-E-MS1 region) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C-prM-E-NS1-NS2A regions)) produced significantly less NS1 protein and
                                                                                                                                                                                                                                                                                                                                                           ABSTRACT: Three recombinant vaccinia virus vectors, which contained
                                                                                                                                                                                                                                                                                                                                                                                          different fragments of the tick-borne encephalitis virus (TBEV) cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           establish the most immunogenic combination. Infection of CV-1 cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cells infected with v5'C-NS2A (coding for the 5'-noncoding region and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vector vC-NS3 makes it a very attractive candidate for development of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   demonstrated that vC-NS3 induced high levels of TBEV-specific
                                                                                                                                                                                                                                                                                                                                                                                                                        from the 5'-noncoding region to the end of the NS3 gene under the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 proteins identical in size to the TBEVE and NS1 proteins. However,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antibodies and protected them against i.p. challenge with 10 million
                                                                                                                                                                                                                                                                                                                                                                                                                                                       control of the native 7.5 k promoter, were constructed in order to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  very little if any of E protein. Immunization of mice with the vectors
                                                                                                                                Center of Virology and Biotechnology 'Vector', 633159 Koltsovo,
Ageenko V A; Dryga S A; Vorobyeva M S; Sandakhchiev L S CORPORATE AFFILIATE: Vektor Roy Child Hosp Brisbane
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                                                                                                                                                                                                JOURNAL: J.Biotechnol. (44, 1-3, 97-103) 1996
                                                                                                                                                                                                                                                                                             Symposium, Vienna, Austria, 11-14 April, 1995.
                                                                  Inst. Stand. Contr. Med. Biol. Prep. Moscow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              live TBEV recombinant vaccine. (29 ref)
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                                                                                                                                                                 Novosibirsk region, 633159 Russia.
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